KALENDARIUM

Astronomical, Meteorological, and Chronological.

OR, AN

ALMANACK

For the Year of Christ;

MDCLXX.

Being the second after the Leap-Year.

Calculated for the Meridian of *LONDON*,
And
Furnished with Rules, Tables, and other Necessaries, for the Accommodation and Use, as well of

Merchants, *Travellers*, *Tradesmen*, as of *Mariners*, *Mathematicians*, *Astrologers*.

By *James Bowler*, Astrophilo.

LONDON, Printed by *E.C.* and *A.C.* for the Company of Stationers, 1670.

The Common Notes, and Moveable Feasts this Year 1670. according to THE

English Account.			Foreign Account.	
	18	The Golden Number	18	
	27	The Cycle of the Sun	27	
	25	The Dominical Letter.		
	18	The Epact	8	
February	13	Shrove Sunday	16	
April	3	Easter Day,	6	*April*
May	8	Rogation Sunday	11	*May*
May	12	Ascension day	15	*May*
May	22	Whitsunday,	25	*May*
May	29	Trinity Sunday	1	*June*
November	27	Advent Sunday	30	*November*

Times of Marriage Prohibited.

From { The beginning of the year till *January* 14.
January 30. till *April*. 11.
May 8, till *May* 29.
November 27. till the end of the year.

THe bright Planet *Venus* is Occidental, and may be seen in the West after Sun setting, from the beginning of the year till the 11th. of *April*, all which time she is called *Hesperus* vel *Vesper*, the Ewening star.--And from the 11th. of *April* to the years end, she is Oriental, and may be seen in the East before the Sun riseth, all which time she is called *Lucifer* or the Bright Morning Star.

The

The beginning and ending of the Terms, with their Returns.

Ethoyn days, or days of Exception.		Days of Except.	Returna Brevium	Days of Appearan.
Hilary Term begins January 24. ends Feb. 12.				
Octab. Hil.	*Janua.* 20	21	22	24
Quind. Hill.	*Jan.* 27	28	29	31
Craſt. Purif.	*Feb.* 3	4	5	7
Octab Purif.	*Feb* 10.	11	12	12
Eaſter Term begins April 20. ends May 16.				
Quind Paſch.	*Apr.* 18	18	19	20
Treſ Paſch.	*Apr.* 25	26	27	28
Menſ. Paſch.	*May* 2	3	4	5
Quinq. Paſch.	*May* 9	10	11	12
Craſt. Aſcenſ.	*May* 15	14	16	16
Trinity Term begins June 3. ends June 23.				
Craſt. Trin.	*May* 30	31	June 1	2
Octab. Trin.	*June* 6	7	8	9
Quind Trin.	*June* 13	14	15	16
Treſ Trin.	*June* 20	21	22	23
Michaelmas Term begins Oct. 24. ends Nov. 28				
Treſ. Mich.	*Octob.* 20	21	22	22
Menſ. Mich.	*Octob.* 27	28	29	29
Craſt. Anim.	*Nov.* 3	4	5	5
Craſt Mart.	*Nov.* 11	12	14	15
Octab. Mart.	*Nov.* 18	19	21	22
Quind. Mart	*Nov* 25	26	28	32

A Table shewing the time of High Water in all the Ports below mentioned.

Days of Age	Hours and Minutes to be added.			The Names of the Ports.	Hours and Minutes to be added.	
	Ho	Mi			Ho.	Mi
1	0	49		Queenborough, Southampton, Portsmouth	0	0
2	1	38		Rochester, Maldon, Blackfall,	0	45
3	2	26		Gravesend, Dover, Blackness, Silly,	1	30
4	3	15		Dundee, St. Andrews, Lisbon, Lucas,	2	15
5	4	2	Afternoon	London, Tinmouth, Amsterdam, Rotterdam	3	0
6	4	53		Barwick, Flushing, Flamborough,	3	45
7	5	41		Baltamoor, Calais, Severi, Calliee,	4	30
8	6	30		Falmouth, Humber, New-Castle,	5	15
9	7	19		Plimouth, Hull, Lin, St. Davids,	6	0
10	8	8		Briſtol, Start-point, Waterford,	6	45
11	8	56		Milford, Bridgwater, Lands-end,	7	30
12	9	45		Portland, Hartlaw, Dublin,	8	15
13	10	34		Pool, Isle of Man, Dunbar, Diepe,	9	0
14	11	23		Needles, Oxford, South and N. Forelands,	9	45
15	12	11		Yarmouth, Dover, Harwich,	10	30
16	0	0		Rie, Winchelſey, Colchot,	11	15
17	1	0				
18	1	48				
19	2	36				
20	3	26				
21	4	15	Morning			
22	5	3				
23	5	53				
24	6	41				
25	7	30				
26	8	19				
27	9	8				
28	9	56				
29	10	45				
30	11	34				

The use of these Tide-Tables.

IN the Almanack following, you have the Age of the Moon, set (in the laſt Column) againſt every day of the year, which being known, ſeek the Moons age in this Table, and ſee what hours and minutes ſtand againſt it, thoſe hours and minutes being added to the hours and minutes which ſtand againſt the name of the place you would know the time of High-water at, will give you the time of high water at that place.

Example.

If you would know what time it will be High-water at *Gravesend*, upon the 21 day of *January*, look in the Kalendar and againſt the 21 day of *January* you ſhall find the Moon is 10 days old: wherefore find 10 days in this Table under (☾ Age) and againſt it you ſhall find 9 h. 8 m. which being added to 1 h. 30 m. (the hours and minutes ſtanding againſt *Gravesend*) the ſum is 9 h. 38 m. at which time it will be high water at *Gravesend* on the 21 of *January* afternoon. But if the hours and minutes added together exceed 12 hours, you muſt caſt away 12 hours, and the time of high water will remain. So on the 20 of *January* the Moon being 9 days old, the hours and min. againſt 9 days old are 7 h. 19 min. which added to 10 h. 30 m. (the hours and min. ſtanding againſt *Dover*) make 17 h. 49 m. from which take 12 h. and there remains 5 h. 49 m. at which time, it will be high water at *Dover* the 20 of *January*.

A Table shewing the length of the Day and Night, the Suns Place, his Right Ascension, his Declination, and Meridian Altitude, for every 10 day in each month.

The Months and every tenth day.		Length of Day.		Length of Night.		The Suns place.			The ☉ right ascens.		The Sun Declination.			The Suns Merid. Altitude	
Month.	Da	H.	M.	H.	M.	D.		M.	H.	M.	D.		M.	D.	M.
January	1	7	56	16	4	21	♑	59	20	9	21	S	43	16	31
	10	8	28	15	40	1	♒	10	20	13	19		58	18	26
	20	8	48	15	12	11		28	20	54	17		26	20	57
February	1	9	26	14	34		♒	30	21	43	13		44	24	17
	01	9	56	14	8	2	♓	34	22	18	10		36	27	45
	20	10	28	13	32	12		36	22	56	6		51	31	29
March	1	11	14	12	46	21	♓	35	23	29	3		3	34	35
	10	11	54	12	6	0	♈	31	0	3	0	N	12	38	32
	20	12	32	11	28	10		22	0	38	4		7	42	29
April	1	13	20	10	49	22	♈	8	0	21	8		39	46	37
	10	14	0	10	0	0	♉	54	1	55	11		50	50	41
	20	14	23	9	28	10		35	2	32	15		3	52	25
May	1	15	16	8	44	21	♉	12	3	15	18		8	56	15
	10	15	40	8	20	9		52	3	55	20		12	58	35
	20	16	8	7	52	9	♊	24	3	36	21		57	60	22
June	1	16	20	7	40	20	♊	51	5	20	22		13	61	36
	10	16	26	7	34	29		25	5	57	23		32	62	0
	20	16	22	7	38	8	♋	06	5	39	23		14	61	45
July	1	16	6	7	54	19	♋	25	7	24	22		7	60	49
	10	15	44	8	16	28		59	8	5	20		39	59	14
	20	15	20	8	40	7	♌	32	8	40	18		27	57	4
August	1	14	42	9	18	19	♌	2	9	26	15		10	54	7
	10	14	8	9	52	24		42	9	47	12		19	50	59
	20	13	36	10	24	7	♍	21	10	37	8		51	47	31
September	1	12	46	11	14	19	♍	1	11	20	4		22	43	26
	10	12	14	11	46	24		49	11	41	0		52	39	33
	20	11	22	12	38	7	♎	39	12	27	3	S	3	35	38
October	1	10	48	13	12	18	♎	32	13	8	7		17	31	40
	10	10	16	13	44	27		30	13	42	10		37	18	3
	20	9	32	14	28	7	♏	30	14	21	14		4	24	35
November	1	8	52	15	8	19	♏	35	15	8	17		42	21	12
	10	8	24	15	36	28		42	15	45	19		57	18	39
	20	8	0	16	0	8	♐	51	16	28	21		5	16	43
December	1	7	40	16	20	20	♐	4	17	16	23		10	15	28
	10	7	34	16	26	29		16	17	58	23		32	15	0
	20	7	41	16	18	9	♑	29	18	41	23		11	17	17

A brief Chronology of some memorable things since the Conquest.

England was Conquered by Duke *William*	604
London Bridge was built of Stone	461
Guns were invented	292
Printing of Books was invented	230
Henry the Eighth Conquered *Bulloign*	127
Coaches were first used in *England*	115
Pauls Steeple was Fired by Lightning	109
The Massacre in *France*	98
Tilbury Camp	82
The Gun-Powder Treason *Novemb.* 5.	65
King *Charles* the I was Born	70
30578. died of the Plague in *London*	67
The great Frost	63
Prince *Henry* died	59
The Great Snow.	54
The Blazing-Star in *November*, 1618.	52
Sir *Walter Rawleigh* was beheaded	52
Queen *Anne* died	51
Prince *Charles* went to *Spain*	48
The Fall at *Black Friers*	47
The Cruelty committed at *Amboyna*	46
54262. died of the Plague in *London*	45
The Voyage to the Isle of *Rhee*	43
The Duke of *Buckingham* was Strabb'd	42
King *Charles* the II. was Born, *May* 29	40
St. *Pauls* Cathedral began to be repaired	36
The *Hollanders* met the *Spaniards* in the *Downs* and Fought them	31
The Long Parliament began, *Novemb.* 3.	30
The Rebellion in *Ireland* brake out	29
Edge-Hill Fight	28
Brainford Fight	27
Newbury first Battel, *Sept.* 20.	26
The *Scotch* Army of 20000. entred *England*	26
Marston Moor Fight	26

Since

Since

The Bishop of *Canterbury* was beheaded	25
Newbery second Fight, *Octob.* 28.	26
Naseby Fight, *June* 14.	25
The *Scots* were Routed in *Lancashire*	22
King *Charles* the I. was murthered	22
Duke *Hamilton*, Lord *Capel*, and Earl of *Holland* were beheaded	22
Colchester was taken	22
Worcester Fight, *Septemb.* 3.	19
The Long Parliament dissolved by *O. C.*	17
The Great Fight at Sea between the *English* and the *Dutch*, and the *Dutch* beaten, *June* 23.	17
Usurping *Oliv. Cromw.* took the Government	16
Dunkirk was delivered to the *English*	12
Sir *Hen. Slingsby*, and Dr. *Hewet* Beheaded	12
Usurping *Cromwel* died, *Sept* 3.	12
Gen. *Monck* marched to *London*	11
He brought the Secluded Members to the House	10
The Parliament began, *April* 25.	10
King *Charles* the II arrived in *London*, *May* 29.	10
Harrison and the rest of the Regicides were Executed at *Charing-Cross*	10
King *Charles* the II was Crowned, *April* 23.	10
Three Comets appeared	5
The first great Sea-Fight between the *Dutch* and *English*, wherein the *Dutch* were beaten, and 22 Ships taken	5
97351. died in one year in *London*, whereof of the Plague 68596	5
The second Fight with the *Dutch*, *June* 1, 2, 3.	4
The third Fight with the *Dutch*	4
There was about 13200. Houses burnt in *London*, *September* 2, 3, and 4 days	4
The Treaty with the *Dutch*	2
Two Whales came up the *Thames*, one to *Gravesend*, the other to *Greenwich*, *August* 9.	1

☾ Laſt quarter the 4 day, 27 min. paſt 9 morning.
☽ New Moon the 11. day, 38. min. paſt 1 afternoon.
First quarter the 18. day, 13 min. paſt 5 morning.
☍ Full Moon the 25. day, 47 min. paſt 6 at night.

1	♑	New years day.	♑	1	45	♏	10	Wind, moiſt
2		*Octab. Stephen*		12	46	♎	2	☿ ☌ ♀ and
3	♉	*Octab. John.*		23	47		13	55	☐ ♆. □ ♀ ☾
4	♈	*Octab. Innocen.*		24	48		25	59	Variable weather,
5	♌	*Ed. Con. de.*		25	50	♏	8	21	more ſettled,
6	♌	Epiphany		26	51		20	55	☌ ♆ ☌. ✶ ☌ ♀
7	♊			27	52	♐	4	12	and temperate,
8	♋	Lucian.		28	53		17	44	☐ ♀ ☾. Snow,
9	♋	1 after Epiph.		29	54	♑	1	48	☍ ♆ ☾ Cold but
10				♒	55		16	14	☌ ♀ ☾ dry wea-
11	♎	Hyginus		1	56	♒	1		ther.
12	♎			2	58		16	3	☐ ☌ ☾. △ ☌ ♀
13	♏	*Hilary.*		3	58	♓	0	2	☌ ♄ ☾. ☾ Perig.
14	♑			4	59		16	4	☌ ♀ ☾ Snow
15	♑			6	1	♈	0	39	☐ ♆ ☾ and
16	♑	2 S. after Epi.		7	2		14	59	hard froſt.
17	♐			8	3		29	0	☐ ☿ ☾. Dry
18	♐	Priſca.		9	4	♉	12	39	
19	♑			10	5		25	58	☍ ☌. □ ♄ ☾
20	♑	Fabian.		11	6	♊	9	59	Variable and
21	♑	Agnes.		12	7		1	47	unſettled weather.
22	♑	Vincent.		13	8	♋	4	19	☾ ☿ ☾. ☌ ♆ ☾
23	♑	3 S. after Epi.		14	9		6	46	☍ ☌
24	♐	Paul begins		15	9		28	58	☿ is occidental
25	♑	St. Paul		16	10	♌	1	6	☐ ♄ ☌
26	♑			17	11		23	6	☐ ☌ ☍ ☿ ☾
27	♑	Julian.		18	11	♍	5	0	☾ Apog.
28	♑			19	12		16	53	☌ ☿ ☾
29	♑	Valerius.		20	13		28	43	dry weather.
30	♑			21	13	♎	10	36	☐ ♆ ☽
31	♐			22	14		22	32	

January.	☿ D	♃ D	M	♄ D.	M.	♂ D.	M	♀ D.	M.	☽ D	M	☊ D	Lat. M.
	♑ 1	♐ 23	♒ 7	8	♌ 5	♍ 12	♍ 14	♓ 6	7	♈ 7	3	☽.	7
The	♑ 6	♐ 4	20	8	15	15	21	12	9	15	13	☿ M.	3
Planets	♑ 11	♐ 24	58	7	30	18	15	17	45	♉ 23	9	♃ D.	59
Places.	♑ 16	♑ 15	28	7	8	21	9	♈ 3	16	♊ 1	♒ 20	♄	
	♑ 21	♑ 16	4	6	38	24	0	28	38	9	47	☊ S.	17
	♑ 26	♑ 26	40	6	14	26	50	♈ 3	54	18	32	☊ D.	21

1	♑ 2	3	58		1	7 0 20
2	3 0	4	0	Day 8 hours long.	2	7 48 21
3	7 58	4	2		3	8 36 22
4	7 57	4	3		4	9 24 23
5	7 56	4	4		5	10 12 24
6	7 55	4	4		6	11 0 25
7	7 54	4	6		7	11 48 26
8	7 53	4	7		8	12 36 27
9	7 52	4	8	☉ Rises E. by E. and	9	1 24 28
10	7 50	4	10	sets SW. by W.	10	2 11 29
11	7 49	4	11		11	3 0
12	7 47	4	13		12	3 48
13	7 46	4	14		13	4 36 2
14	7 45	4	15	Day 8 hours and half.	14	5 24 3
15	7 43	4	17		15	6 12 4
16	7 42	4	18		16	7 0 5
17	7 41	4	19	South arm of ♋ S. at 12.	17	8 24 6
18	7 39	4	21		18	9 36 7
19	7 38	4	22		19	10 8
20	7 36	4	24		20	11 12 9
21	7 34	4	26		21	11 48 10
22	7 32	4	28		22	12 36 11
23	7 31	4	29	Hidr.ª heart S. 12.	23	1 11 12
24	7 30	4	30	Day 9 hours long.	24	2 15 13
25	7 28	4	32	☿ is Occidental.	25	3 0
26	7 26	4	34		26	3 48 1
27	7 25	4	35		27	4 36 2
28	7 23	4	37		28	5 24 3
29	7 20	4	40		29	6 12 4
30	7 18	4	42	♀ is at her greatest dist.	30	7 0 5
31	7 16	4	44	from ☉.	31	7 48 6

Sun rises

Sun sets

High water at London Bridge.

☾ Laſt quarter the 3. day, 2 min. paſt 3 morning.
● New Moon the 9. day, 58 min. paſt 11, at night.
☽ Firſt quarter the 16 day, 5 min. paſt 5 at night.
○ Full Moon the 24 day, 43 min. paſt 5 at night.

1	D		23	♒	5	4	♓	38 Wind and
2	E		24	15	17	2		☐ ☿ ☽ Snow
3	F	Blaſe	25	16	29	♈	36	☐ ♄ ☌ ☌ ☿
4	G		26	17	12	♈	48	and Rain
5	A	Agatha	27	18	16		3	☌ ☍ ♄
6	B		28	18	10	♍	0	♄ is Oriental.
7	C		29	18	24		21	Warm weather.
8	D		♓	19	9	♒	9	Sleet or Snow.
9	E	Apollonia	1	19	24		15	☌ ♄ ☾
10	F	Scholaſtica	2	20	9	♓	28	☐ ☌ ☾
11	G		3	20	24		40	☌ ☿ ☾ Rain
12	A		4	20	9	♈	40	☐ ♃ ☾ but
13	B		5	21	14		20	☌ ♀ ☾
14	C		6	21	8	♉	22	warm,
15	D	Shrove-Tueſd.	7	21	22		24	Cloſe aire.
16	E	Juliana	8	21	5	♊	49	☌ ☌ ☾
17	F		9	22	18		47	Dry wind.
18	G	Simeon	10	22	1	♋	28	☍ ♃ . ☐ ♀ ☾
19	A		11	22	13		50	Rain and
20	B		12	23	26		5	☐ ♀ ☾ wind
21	C		13	23	9	♌	5	unſettled weather
22	D	Peters Chair	14	2	20		5	to the 25. d.
23	E		15	23	1	♍	54	☌ ♄ ☾
24	F		16	23	3		46	☾ Aſpg.
25	G		17	23	15		40	☐ ☌ ☾
26	A		8	23	7	♎	34	☐ ♃ ☾
27	B	2 Sund. Lent	19	23	19		34	Snow and
28	C		20	23	1	♍	38	☌ ♀ ☾ dark air.

Planets	☽	♄	♃	♂	☿	♀	☾ Latit.
	D.	D M.	D M	☽. M.	D. M.	D M	D. M.
The Planets places.	1	27 ♒ 23	5 ♋ 5	0 ♐ 11	9 ♈ 58	29 ♒ 29	0 M 51
	6	28 0	5 31	2 56	14 50	8 ♓ 46	4 57
	11	28 37	5 26	5 37	19 28	17 46	2 D 31
	16	29 13	5 2	8 17	23 49	25 38	3 S 29
	21	29 49	5 21	10 53	27 51	1 ♈ 16	4 D 57
	26	0 ♓ 25	5 94	13 26	1 ♉ 30	3 38	1 25

1	7	15	4	45	Day 9 hours and half.	1	8	3 67
2	7	14	4	46	☉ Rises ESE. sets WSW.	2	9	2 48
3	7	13	4	47	Lions heart S. at 12.	3	10	1 29
4	7	11	4	49		4	11	0 10
5	7	10	4	50	Lions Neck S. at 12	5	11	48 11
6	7	8	4	52	♄ is Oriental	6	12	36 12
7	7	6	4	54		7	1	24 13
8	7	4	4	56		8	2	12 14
9	7	2	4	58		9	3	0 ●
10	7	0	4	0	Day 10 hours long	10	3	48 10
11	6	59	5	1		11	4	36 17
12	6	57	5	3		12	5	24 18
13	6	55	5	5		13	6	12 19
14	6	53	5	7		14	7	0 20
15	6	51	5	9		15	7	48 21
16	6	49	5	11	7 *s are with the ☾	16	8	36 22
17	6	46	5	14	Day ten hours and half.	17	9	24 23
18	6	43	5	17		18	10	12 24
19	6	40	5	20		19	11	0 25
20	6	38	5	22	☿ is direct in motion, and	20	11	48 26
21	6	36	5	24	♀ at greatest dist from ☉	21	12	36 27
22	6	34	5	26	20 day) ☉ Rises E by S.	22	1	24 28
23	6	32	5	28	and sets W by S.	23	2	12 29
24	6	30	5	30	Day 12 hours long	24	3	0 ●
25	6	26	5	38		25	3	48 1
26	6	26	5	4		26	4	36 2
27	6	24	5	36		27	5	24 3
28	6	22	5	38		28	6	12 4

High Water at London Bridge.

☽ Laſt quarter the 4 day, 4 min. after 5 at night.
● New Moon the 11. day, 20 min. paſt 9 morning.
☽ Firſt quarter the 18 day, 5 min. paſt 7 morn.
○ Full Moon the 26. day, 10 min. paſt 11 at noon.

1	D	David	♈	21	☾	21	13	♍	51	Froſt and cloſe
2	E	Chadwal		22		21	26		14	□ ♄ ☾ wea-
3	F			23		20	8	♑	5	ther.
4	G	Gilbert		24		20	21		50	☌ ♂ ☾ Va i-
5	A			25		20	4	♑	41	□ ☿ ☾ able and
6	B	3 Sun. in Lent		26		19	18		52	intemperate.
7	C			27		19	3	♒	4	Wind and
8	D	Salome		28		18	17		36	☌ ☉ ☿ ☽ ☿ Rain
9	E			29		18	2	♓	32	☌ ♄ ☾ Cloſe
10	F	Scholaſtica	♈			17	17		39	□ ♂ ☾ air.
11	G	Quirion		1		16	2	♈	51	☌ ☿ ☾. □ ♅ ☾
12	A	St. George		2		16	17		57	Cloudy and
13	B	4 Sun. in Lent		3		15	2	♉	48	☌ ♅ ☾ dark
14	C			4		14	17		14	rather.
15	D			5		14	1	♊	17	□ ♄ ☾
16	E	Juliana		6		13	14		47	□ ☉ ♅ Windy.
17	F			7		1	27		53	☌ ♂ ☿ ☾. □ ☌ ☿
18	G	Edward		8		12	10	♋	35	☌ ♅ ☾ Hail
19	A			9		11	22		55	and windy.
20	B	5 Sun. in Lent		10		10	5	♌	6	□ ☿ ☾ Cloudy
21	C			11		9	16		58	weather till the
22	D			12		8	18		50	25. day.
23	E	Theodore		13		7	10	♍	38	
24	F			14		6	2		29	□ ☌ ☾
25	G	Annun. Mary	♉	5		5	4	♎	14	□ ♅ ☾ Warm
26	A			6		4	16		26	weather and
27	B	Palm Sund.		7		3	28		35	more
28	C			8		2	10	♍	51	☌ ☿ ☿ ſerene.
29	D	Quintine		8		59	23		19	Remiſs and
30	E			10		58	5	♐	54	□ ♄ ☽ cloſe
31	F	Amelia		11		56	18		45	☌ ♅ ☿ Temperate.

March.	D	♄ D.	M.	♃ D.	M.	♂ D.	M.	☿ D	M	☽ D.	M	Lat D.	M
The Planets places.	1	0 ♓	45	5 ♌	31	14 ♐	55	3	♉ 25	3 ♈	20	1 M	46
	6	1	20	5	45	17	21	6	14	0	24	5	14
	11	1	52	6	1	19	42	8	23	26 ♓		1 D	45
	16	2	27	5	23	21	59	9	44	12	31	4 S	7
	21	2	59	5	48	24	7	9	13	20	58	4 D	43
	26											0	31
1	6	20	6	40						1 ♉	7	0	5
2	6	18	6	42	Lions Tail S. at 12.					2	7	48	6
3	6	16	6	44	Day 11 hours and half.					3	8	36	7
4	6	13	6	47						4	9	25	8
5	6	10	6	50						5	10	12	9
6	6	8	6	52						6	11	0	10
7	6	6	6	54						7	11	48	11
8	6	4	6	56	☿ is with the ☉ at 5 at night.					8	12	36	12
9	6	1	6	59						9	1	24	13
10	6	0	7	0	Equal day and night.					10	2	12	14
11	5	58	7	2	and rises due East, and					11	3	0	☽
12	5	56	7	4	sets due West.					12	3	48	1
13	5	54	7	6						13	4	36	2
14	5	52	7	8	☿ *s with the ☾ near					14	5	24	3
15	5	50	7	10	midnight.					15	6	12	4
16	5	48	7	12						16	7	0	5
17	5	46	7	14						17	7	48	6
18	5	44	7	16	Day 12 hours and half.					18	8	36	7
19	5	43	7	17						19	9	24	8
20	5	41	7	19	♀ in great Bears Tail.					20	10	12	9
21	5	39	7	21	☿ is Retrograde.					21	11	0	10
22	5	37	7	23	The ☉ is E. 16. min. aft. 6.					22	11	48	11
23	5	36	7	24	☿ is direct (and W. 44					23	12	36	12
24	5	35	7	25	(min. aft. 5.					24	1	24	13
25	5	34	7	26	(night.					25	2	☽	14
26	5	32	7	28	☾ Eclipsd.					26	3	0	☽
27	5	30	7	30	Day 13 hours long.					27	3	48	16
28	5	28	7	32	Spica Virginis S. at 22.					28	4	36	17
29	5	26	7	34	♀ in Bears Tail ♎ 12.					29	5	24	18
30	5	23	7	37	28. day) ☉ rises E. by N.					30	6	12	19
31	5	21	7	39	and sets W. by N.					31	7	0	20

High water at London Bridge

☾ Laſt quarter the 3. day, 53 min. paſt 2 morning.
● New Moon the 9 day, 9 min. paſt 6 at night.
☽ Firſt quarter the 17 day, 58 min. paſt 10 at night.
○ Full Moon the 25 day, 15 min. paſt 2 in the morn.

1	a	Theodore	22	♈ 55	1	♍ 48	☌ ☿ ☾		Cold but
2	b		22	54	15	6			dry weather.
3	c	Easter day.	23	52	28	40			
4	d		24	51	12	♎ 38	□ ♀ ☾		Cold and
5	e		25	49	26	53	☌ ♄ ☾		cloudy.
6	f	Sixtus	26	48	11	♑ 31			
7	g		27	46	26	20	□ ☌ ☾ ☌ ☿ ☾		
8	a	Staniſlaus	28	45	11	♈ 17	□ ☇ ☾		Rain and
9	b		29	43	26	12	☌ ♀ ☾		ſome
10	c	Low Sund.	♉	4	10	♉ 57			wind.
11	d		1	40	25	25			Thunder.
12	e	Gordian M?	2	38	9	♊ 28	□ ♄ ☾		
13	f		3	36	23	6			Remiſs and cloſe aire,
14	g		4	34	6	♋ 16	☌ ♆ and □ ♀ ☾		
15	a	Jubilate	5	33	19	2			
16	b		6	31	1	♌ 26	□ ♉ ☾		
17	c	2 aſt. Eaſter	7	29	13	32			thunder and
18	d		8	27	25	27			Hail,
19	e		9	25	7	♍ 15	☌ ♄ ☾		with
20	f	Term begins	10	23	19	4	☾		Apog. rain
21	g		11	21	0	♎ 55	□ ☌ ☾		and
22	a	Cantate	12	19	12	53	□ ♆ ☾		hot weather
23	b	St. George	13	17	25	0	☌ ♀ and ♀ ☾		
24	c	3 aſt. Eaſter	14	15	7	♏ 21			more rain.
25	d	St. Mark Ev.	15	13	19	50	☌ ♀ ☿		
26	e		16	11	2	♐ 41	□ ♄ ☾		
27	f	Anaſtaſius	17	9	15	35			Remiſs but
28	g		18	6	28	48			hot weather.
29	a		19	4	12	♑ 7	☌ ☌ ☾		
30	b	Eirkiwald	20	2	25	34	□ ☌ ☾.		

April	D	♄ D.	M	♅ D.	M	♂ D.	M	♀ D.	M	☿ D.	M	☾ Latit. D.	M
	1	4	♓ 47	♋	59	28	♐ 16	7	♉ 42	15	♓ 0	4	M 55
The	6	4	33	8	38	♀	♏ 11	5	7	19	26	3	D 19
Planets	11	4	58	9	17	1	46	2	1	5	♈ 2	2	S 48
Places.	16	5	22	1	2	3	11	28	♈ 55	11	38	5	D 11
	21	5	45	♌	48	4	20	26	11	19	6	1	45
	26	6	5	11	38	5	14	24	30	27	24	3	M 22

1	5	20	6	40						1	8		36	21
2	5	18	6	42						2	9		24	22
3	5	16	6	44	Day 12 hours and half.					3	10		12	23
4	5	14	6	46						4	11		0	24
5	5	12	6	48	3d. in Bevi Tail S. 12					5	11		48	25
6	5	10	6	50	♀ at greateſt diſt. from ☉					6	12		36	26
7	5	7	6	53						7	1		24	27
8	5	4	6	56	Pegaſus ſhoulder S. 12					8	2		12	28
9	5	2	6	58	☉ Eclipſed					9	3		0	●
10	5	0	7	0	Day 14 hours long.					10	3	High Water at *London Bridge*.	48	1
11	4	58	7	2	♀ is Oriental					11	4		36	2
12	4	57	7	3	☾ is now departed					12	5		24	3
13	4	55	7	5	from the 7 *s.					13	6		12	4
14	4	53	7	7	Sun riſes					14	7		0	5
15	4	52	7	8						15	7		48	6
16	4	50	7	10	Sun riſes ENE. and					16	8		36	7
17	4	48	7	12	ſets WNW.					17	9		24	8
18	4	46	7	14	Day 14 hours and half.					18	10		12	9
19	4	44	7	16						19	11		0	10
20	4	42	7	18	South Balance S. at 12					20	11		48	11
21	4	40	7	20	20) The Sun will be eaſt					21	12		36	12
22	4	39	7	21	Eaſt at 50 min. paſt 5 in					22	1		16	13
23	4	37	7	23	the morning, and Weſt					23	1		10	14
24	4	35	7	25	at 10 min. after 5 at night					24	2		8	15
25	4	33	7	27						25	3		0	●
26	4	31	7	29	Day 14 hours long					26	4		48	17
27	4	29	7	31	Formoſt guard S. at 12					27	4		36	18
28	4	27	7	33	North Balance S. at 12					28	5		24	19
29	4	25	7	35						29	6		12	20
30	4	23	7	37						30	7		0	21

☾ Laſt quarter the 2. day, 55 min. paſt 9 morn.
● New Moon the 9. day, 8 min. paſt 3 morning.
☽ Firſt quarter the 16. day, 5 min paſt 4 afternoon.
○ Full Moon the 24. day, 1 min. before 3 afternoon.
☾ Laſt quarter the laſt day, 31 min paſt 2 afternoon.

1	♉	c	Phil. and Jac.	21	♂	c	9	♒	14	☿	☍	☾	Apog.
2		c		21		57	23		5	Wind and			
3		d	Inven. Cruc.	22		55	7	♓	10	☌	♄	☾	thunder.
4		e		23		52	21		15	Hot weather.			
5		f	Godard	24		50	5	♈	51	□	☿		and ☌ ☾
6		g	John Port. lat.	25		48	20		23	☌	♀	☾	Rain
7		a		26		47	4	♉	54	✶	♄	☌	cooling
8	♊	b	Ascension Sun.	27		43	19		21	☌	♀	☾	the air.
9		c		28		40	3	♊	15	□	♄		
10		d		29		38	17		31				
11		e	Anthony	♊		35	1	♋	6	☍	☌	☾	Warm
12		f	Alcemon day	1		33	14		17	☌	☿	☾	again.
13		g	Servatius	2		30	27		2	□	♀	☾	
14		a		3		28	9	♌	9	☌	♃	♀	Wind
15	♋	b	6 after Eaſt.	4		25	21		39	and rain.			
16		c	Term ends	5		22	3	♍	32	☍	♄	☾	
17		d		6		20	15		21	□	♃	☾	Apog.
18		e		7		17	27		8	□	☌	☾	
19		f	Ember week	8		14	9	♎	8	□	☿	☾	
20		g		9		12	21		0	☍	♀	☾	
21		a		10		9		♏	13				
22	♌	b	Whitſunday	11		6	15		41	Cool air.			
23		c		12		4	28		24				
24		d		13		1	11	♐	19	□	♄	☾	
25		e		13		58	24		48	☌	☌	☾	Hot and
26		f	Sr. Auguſtine	14		55	8	♑	23	☍	♃	☾	ſomewhat
27		g		15		52	22		8	intemperate.			
28		a	Germane	16		50	5	♒	59	□	☿	☾	
29	♍	b	Trinity Sund.	17		47	20		0	△	☍	☿	Rain.
30		c		18		44	3	♓	57	☌	♄	☾	Remiſs.
31		d		19		41	18		2	☍	♇		Cloudy.

	D	☿		♃		♂		♀		♄		Aspects
		d.	m.	d.	m.	d.	m.	d.	m.	d.	m.	D. M.
	1	5	♈ 24	12	♓ 29	5	♍ 58	23	♈ 40	6	♉ 32	5 ☌ 4
The	6	5	39	13	23	6	26	23	51	16	29	0 ☌ 0
Planets	11	6	54	14	17	8	31	24	56	27	℞ 4	47
places	16	7	5	15	16	6	22	26	48	8	♊ 33	D 19
	21	7	16	16	16	5	50	29	19	13	50	☌ M 13
	26	7	23	17	15	5	♎ 2	2	♉ 21	29	0	5 4

1	4	22	7	38								18	36	22
2	4	21	7	39								25	24	23
3	4	20	7	41	With ☾ now S. at 12							3 10	12	24
4	4	19	7	41	Heads Grad S. 2							11	0	25
5	4	17	7	43	Spears next S. 12							5 11	48	26
6	4	15	7	45								6 12	36	27
7	4	13	7	47								7 1	24	28
8	4	12	7	48	7 ✶ with the Moon.							8 2	12	9
9	4	11	7	49	♂ is Stationary.							9 3	0	●
10	4	10	7	50	9 ☽ will be Full a 9 min. past 7							1 3	H 48	1
11	4	9	7	51	morn. and rises at 5 min. after 4							1 4	36	2
12	4	7	7	53	at night.							1 5	24	3
1	4	6	7	54								13 6	12	4
14	4	5	7	55	☿ is now Occidental.							1 7	0	5
15	4	3	7	57								5 7	48	6
16	4	2	7	58	☽ in Scorpio S. at 12							1 8	36	7
17	4	1	7	59								1 9	24	8
1	3	59	8	1	(1 day) ☉ Rises N E by E, sets							8 10	12	9
19	3	58	8	2	N W by W.							9 11	0	●
20	3	56	8	4								20 11	48	11
21	3	55	8	5								2 12	36	12
22	3	54	8	6								22 1	24	3
23	3	53	8	7								2 2	12	4
24	3	51	8	7								2 3	0	●
25	3	52	8	8	Serpents Race S. at 12							25 3	48	6
26	3	52	8	8								25 4	36	11
27	3	52	8	8	H[illegible]s head S. at 12							27 5	24	8
28	3	51	8	9								28 6	12	9
29	3	51	8	9	K. Charl. II. Nat. and Return.							2 7	0	●
30	3	50	8	10								3 7	48	21
31	3	50	8	11								31 8	36	22

☾ New Moon the 7 day. 7 min. after 12 at noon.
First Quarter the 15 day. 34 min. after 9 morn.
Full Moon the 23 day. 23 min. past 1 morn.
Last Quarter the 29 day. 56 min. past 7. at night.

1	☌		Nichomede	20	♊	38	♈ 5	☐☌☾ *Hot*
2	☍		*Corpus Christi*	21		35	16 10	☐♅☿☐
3	☐			22		33	♉ 15	*Cooling Showers*
4	△		Quirinus.	23		30	14 23	☌♀☾ *more*
5	⚹		1 Sun. aft. Trin.	24		27	28 21	*Rain*
6	☊			25		24	♊ 12 16	☐♄☾ *Remiss*
7	☋			26		21	26 18	☌☌☾
8	☉		Wilhelm B.	27		18	♋ 9 12	*Wind and*
9	☿			28		15	12 15	☌♅☾☌☿☾
10	♀			29		12	♌ 4 58	*Thunder*
11	♂			♋		9	17 23	☌ *is Occidental*
12	♃		2 Sun. aft. Tri.	1		7	♍ 29 33	
13	♄			2		4	♍ 11 ♎ 20	*Thunder*
14	♅			3		1	23 18	☾ Apog.
15	♆		Vitus	3		58	♎ 5 4	☐☌☾ *very*
16	☽		Botalph	4		55	16 35	☐♅☾ *uncer-*
17	☊			5		52	♎ 28 54	☐☿☾ *tain*
18	☋		Homerus	6		49	♏ 11 ♏ 8	*Weather*
19	☉		3 Sun. aft. Tri.	7		46	23 39	☌♀☾
20	☿			8		43	♐ 6 ♐ 32	☐♄☾ *Wind*
21	♀			9		40	19 ♑ 51	*or Thunder*
22	♂		Albane	10		37	♐ 3 ♑ 24	☌☌☾ *Hot*
23	♃			11		34	17 19	☌♅☾ *and*
24	♄			12		31	♑ 1 ♒ 31	*dry weather.*
25	♅			13		28	15 50	
26	♆		4 Sun. aft. Tri.	14		26	♒ 0 ♓ 13	☐☌☾ *very*
27	☽			15		23	14 36	*Temperate*
28	☊			16		20	28 54	☾ Perig. ☐☌☾
29	☋			17		17	♓ 12 ♈ 58	*Hot and dry*
30	☉			18		14	26 59	☐♅☾

	D	♄		♅		♂		♀		☿		Lat.
	d.	m.	d.	m.	d.	m.	d.	m.	d.	m.	M.	A
	1	7	♓29	18	♑31	3	♍44	5	♑39	9	♑58	1 M	32
The	6	7	31	19	35	2	22	10	36	17	59	4	1
Planets	11	7	♈3	20	39	0	55	14	51	24	55	4 D	30
places.	16	7	27	21	44	2	♎0	19	21	0	♒43	0	7
	21	7	21	22	49	7	4	24	2	5	14	4 ♑	27
	26	7	14	23	55	25	33	28	54	8	53	4	47

1	3	5	8	10							9	☌	23
2	3	49	8	11						2	10	15	24
3	3	49	8	11						3	11	48	25
4	3	49	8	11						4	12	0	16
5	3	48	8	12	7 Stars is with the ☾					5	1	48	17
6	3	48	8	12						6	2	36	28
7	3	48	8	12	♄ is R t ograde.					7	3	12	
8	3	47	8	13	Dragos head S, at 12					8	3	0	1
9	3	47	8	3						9	4	48	2
10	3	47	8	13						10	4	36	3
11	3	47	8	13						11	5	24	4
12	3	47	8	13						12	6	12	5
13	3	47	8	13	And ☉ will be E ast at 20 min.					13	7	0	6
14	3	4	8	13	aft r 8, and West 40 min. aft.					14	7	48	7
15	3	48	8	12	4. and rises N E half a Point					15	8	36	8
16	3	48	8	12	East.					16	9	24	9
17	3	48	8	12	☿ at greatest distance from ☉					17	10	12	10
18	3	49	8	11	Point Easterly, Sets N W half a					18	11	0	11
19	3	49	8	11	Point Westerly.					19	11	48	12
20	3	49	8	11						20	12	36	13
21	3	50	8	10						21	1	24	14
22	3	50	8	10						22	2	12	15
23	3	51	8	9						23	3	0	
24	3	51	8	9						24	3	48	17
25	3	52	8	8						25	4	36	18
26	3	52	8	8	♄ may be seen with the Moon a					26	5	24	19
27	3	53	8	7	midnight.					27	6	12	20
28	3	54	8	6						28	7	0	21
29	3	55	8	5						29	8	48	22
30	3	56	8	8	Swans bill South at 12					30	9	36	23

The Sun's motion is swifter by 1 hour 13 minutes by Time.

High water at London-bridge.

● New Moon the 7 day, 27 min. before 1 in the morn.
First Quarter the 15 day 25 min. past 2 morning.
Full Moon the 22 day, 18 min. past 10 before noon.
☾ Last Quarter the 29 day, 41 min. past 1 in the morn.

1	G	John Baptist	19	♋	11	10	♌	50
2	A	Visit. Mary	20		8	24		31
3		5 Sun aft. Tri	21		5		♊	7
4	C		22		2	21		29
5	D		23			4	♍	44
6	E	Peter	23		57	17		45
7	F		24		54	☉	♎	33
8	G	Grimbald	25		51	12		17
9	A		26		48	25		26
10	B	6 Su. af. Trin.	27		45	7	♐	33
11	C		28		43	19		34
12	D	Nabor	29		40	1	♑	19
13	E	Margaret		♌	37	13		6
14	F		1		34	24		59
15	G	Within	2		32	6	♒	55
16	A		3		29	19		6
17	B	7 Sun. aft. Tri	4		26	1	♓	36
18	C		5		23	14		3
19	D		6		21	27		49
20	E	Margaret	7		18	11	♈	27
21	F		8		15	25		43
22	G	M. Magdalen	9		13	10	♉	10
23	A		10		10	24		54
24	B	8 Sun. aft Tri	11		8	9	♊	44
25	C		12		5	24		32
26	D		13		3	9	♈	9
27	E	Martha	14		0	23		30
28	F		14		57	1	♋	38
29	G	Beatrix	15		55	2		27
30	A		16		53	4	♍	58
31	B	9 Sun. aft. Tri	17		5	18		14

Fair, Hot, and
dry.
☐ ♄ ☾. ☌ ☿ ☾
Showers of
Hail.
Hot
☌ ♃ ☾ *Dry*
Thunder
☐ ♂. ☐ ☿ ☾:
Apeg.
☾ *Showers.* (ers.
☐ ♅ ☾ *of Rain*
with
☐ ♄ ☾ *some*
ins.
☌ ♂ ☾ *Hot*
☿ ☾
Rain.
Fair for some
☌ ♄ ☾ *days.*
☐ ☉: ♀ ☾ *Perig.*
Variable to
☐ ♇ ☾
☐ ♅ ☾
Fair weather's end.

	☽ d.	m.	♄ d.	m.	♃ d.	m.	♂ d.	m.	☿ d.	m.	♀ d.	m.	☉ D.	M.
	1	7	♓ 3		♋ 1		♌ 26		♊ 5		♎ 18		♍ 5	
	6	6	5	1	26	9	24	34	9	4	28	45	5	0
The	11	6	36		17	15	14	4	4	18	6	14	2	22
Planets	16	6	20		28	22	23	5	16	39	2	43	2	50
places	21	6	2		9	28	24	22	5	6	29	13	4	55
	26	4	42		♍ 4		24	35	♎	37	28	21	0	37

1	3	57	8									1	10	12	14	
2	3	57	8	3								2	11	0	5	
3	3	58	8	2	☽ ✱ with the Moon.							3	11	48	26	
4	3	59	8		♀ is Retrograde.							4	12	36	17	
5	4	0	8	0	♄ Though, and Vultures h S. at 12							5	1	24	28	
6	4		7	58								6	2	12	20	
7	4	3	7	57								7	3	0		
8	4	5	7	55								8	3	48	1	
9	4	6	7	54	♅ is now Oriental.							9	4	36	2	
10	4	8	7	52								10	5	24	3	
11	4	9	7	51	☽ at greatest dist from Earth.							11	6	12	4	
12	4	11	7	49	☉ Rises N E by E Sets N W by W							12	7	0	5	
13	4	13	7	47	☉ East 9 min. after 7. and Wes							13	7	48	6	
14	4	13	7	47	51 min. past 4							14	8	36	7	
15	4	14	7	46	☿ is Oriental.							15	9	24	8	
16	4	15	7	44								16	10	12	9	
17	4	16	7	44	♀ is direct in motion.							17	11	0	10	
18	4	17	7	43	The Swans Tail, and the Dolphins							18	11	48	11	
19	4	18	7	41	Head are both South at 12.							19	12	36	12	
20	4	20	7	41								20	1	24	13	
21	4	21	7	39								21	2	12	14	
22	4	23	7	37								22	3	0	15	
23	4	25	7	37								23	3	48	16	
24	4	27	7	33								24	4	36	17	
25	4	29	7	31								25	5	24	18	
26	4	30	7	30								26	6	12	19	
27	4	32	7	28								27	7	0	20	
28	4	34	7	26								28	7	48	21	
29	4	36	7	24								29	8	36	22	
30	4	37	7	23								30	9	24	23	
31	4	38	7	22								31	10	12	24	

High-water at London-bridge.

☾ New Moon the 5 day, 8 min. past 2 in the afternoon.
☽ First Quarter the 13 day, 6 min. past 6 at night.
☽ Full Moon the 20 day, 7 min. past 6 at night.
☾ Last Quarter the 27 day, 45 min. past 9 morning.

1	☌	Lammas day.	18	♌	48	1	♋	19	☌ ☿ ☾		*Close*
2	☽		19		45	14		10	*Cold and*		
3	♑	Stephen	20		43	26		51	☌ ♃ ☾	☌ ☿ ☾	
4	☾		21		41	9	♌	20	*Cloudy.*		
5	♐	Oswaldus	22		38	21		39			
6	♐	Sixtus	23		36	3	♍	49	☍ ♄ ☾		
7		10 Sun. af. Tri.	24		34	15		50			
8	♑		25		32	27		44	□ ☌ ☾		*Very*
9	☽		26		29	9	♎	34	*unseasonable*		
10	♑	Laurence	27		27	21		24	□ ☿ ☾		*weather*
11	☾		28		25	3	♍	15	□ ♃ ☾		
12	♐	Clara	29		23	15		15	□ ☿ ☾		
13	♐	Hippollitus		♍	21	27		16	*Rain.*		
14	♋	11 Sun. af. Tri	1		19	9	♐	52			
15	♑	Assump. Mary	2		17	22		5	*More Temperate,*		
16	☽	Rochus	3		15	5	♍	56	☌ ☌ ☾	*Variable*	
17	♌		4		13	19		31	☍ ☿ ☾		
18	☾		5		11	3	♒	48	☍ ♃ ☾	*Wind*	
19	♐	Sebaldus	6		9	8		24	*and Rain*		
20	♐		7		7	3	♓	19	☌ ♄ ☾	☍ ☿ ☾	
21	♋	12 Su. aft. Tri.	8		5	18		27			*Hail*
22	♑		9		3	♈		36	□ ☌ ☾		
23	☽	Zecheus	10		1	18		34	*and*		
24	♑	Bartholomew Ap.	11		0	♉		8	□ ♃ ☿ ☾		
25	☾		11		58	17		38			*Storm*
26	♐	Severius.	12		56	1	♊	34	□ ♄ ☾		
27	♐	Dog days end.	13		55	5		5	□ ☿ ☾		
28	♋	13 Su. af. Trin.	4		53	18		20			
29	♑	Decollat. Joh	15		51		♋	1	☍ ☌ ☾	*More*	
30	☽		16		50	23		51	*Temperate, but*		
31	♈	Paulinus	17		49	6	♌	14	☌ ♃ ☾	*some Rain*	

	☽	♄		♃		♂		♀		☿		☾ Lun.	
	d.		m.	d	m.	d.	m.	d.	m.	d.	m.	M.	D.
	1	5	♓ 18	1	♌ 51	25	♐ 35	7	♋ 20		♌ 36	5	♋ 0
The	6	4	57	2	57	26	46	13	40	5	33	3	D 19
Planets	11	4	34	4	2	28	14	18	43	12	57		M 3
places	16	4	11	5	4	29	38	24	19	31	56	5	0
	21	3	48	6	6	1	♍ 53	0	♌ 2	1	♍ 36	2	D 11
	26	3	25	7	6	4	26	32		11	56	3	♋ 5

1	4	39	7	21	♀ *is with* ☾ *at midnight.*		1	11	48	25
2	4	41	7	20	*Pegasus mouth S.* 12		2	12	36	26
3	4	43	7	17	*and* ☿ *at greatest*		3	1	24	27
4	4	45	7	15	*dist. from* ☉		4	2	12	28
5	4	46	7	14			5	3	0	●
6	4	48	7	12	☉ *Rises E N E, and Sets W N W.*		6	3	48	1
7	4	50	7	10			7	4	36	2
8	4	52	7	8			8	5	24	3
9	4	54	7	6			9	6	12	4
10	4	56	7	4			10	7	0	5
11	4	58	7	2			11	7	48	6
12	5	0	7	0			12	8	36	7
13	5	1	6	55			13	9	24	8
14	5	3	6	57			14	10	1	9
15	5	5	6	55			15	11	0	10
16	5	6	6	54	♄ *is Occidental.*		16	11	48	11
17	5	8	6	52	*The Sun will be East at 32 min.*		17	2	36	12
18	5	10	6	50	*after 6, and west 28 min. after*		18	1	24	13
19	5	12	6	48	*5 at night.*		19	2	12	14
20	5	14	6	46			20	3	0	●
21	5	16	6	44			21	3	48	16
22	5	18	6	42			22	4	36	17
23	5	20	6	40	*Pegasus shoulder S.* 12		23	5	24	18
24	5	22	6	38			24	6	12	19
25	5	24	6	36	♃ *is with the Moon 25 d.*		25	7	0	20
26	5	26	6	34	☉ *Rises E by N, Sets W by N.*		26	7	48	21
27	5	28	6	32	☿ *is Occidental.*		27	8	36	22
28	5	30	6	30			28	9	24	23
29	5	31	6	29			29	10	12	24
30	5	33	6	27	*The Sun East at 16 min past 6, and*		30	11	0	25
31	5	35	6	25	*west 44 min. past 5.*		31	11	48	26

The Sun is South at 12 min. past 12 at night.

High water at London-bridge.

● New Moon the 4 day, 54 min. past 5 morn.
First Quarter the 12 day, 4 min. past 8 morning.
Full Moon the 19 day, 38 min. past 2 morning.
☾ Last Quarter the 25 day, 2 min. past 9 at night

1	f		18	♍ 47	18	♌ 27	☌ ☿ ☾	*Cold*
2	g		19	45	0	♍ 54	☌ ♄ ☾	*and Cloudy,*
3	a		20	44	12	35		*but dry weather*
4		14 Su. aft. Tri	21	43	24	30	☌ ♃ ☽	*Cold*
5	c		22	41	☽	♎ 22	□ ☿ ☾	Apog.
6	D	Magnus	23	40	18	4		
7	e	Burchius	24	38		♏ 6		
8	f	Nat. Mary	25	37	12	3	□ ♅ ☾	*Cold,*
9	g	Gorgonius	26	36	24	5	□ ☿ ☾	*dry and*
10	a	Sosthenes	27	35	6	♐ 18	□ ♄ ☾	*cloudy*
11		15 Su. at. Trin	28	34	18	44		
12	c		29	33	1	♑ 29		*temperate*
13	D			♎ 31	14	38	☌ ☌ ☾ □ ♅ ☾	
14	e	Holy Cross	1	30	28	11		*Hot and moist*
15	f		2	29	12	♒ 15	☍ ♅ ☾	
16	g	Euphemia	3	28	26	44	☌ ♄ *and* ☍ ☿ ☾	
17	a	Lambert	4	28	1	♓ 15		*Cold*
18		16 Sun. af. Tri	5	27	6	43	☾ ☍ *rig. Rain*	
19	c		6	26	12	♈	□ ☌ ☾	
20	D	Faustus	7	25	27	10	☍ ♅ ☾	*Wind*
21	e		8	23	12	♉ 8	□ ♅ ☾	*but dry*
22	f		9	23	26	44	□ ♄ ☾	*Storms of*
23	g	Tecla Virg.	10	23	10	♊ 55	□ ☿ ☾	*Wind*
24	a	Ruprectus	11	22	4	3		*or Rain*
25		17 Su. aft. Tri.	12	21	7	♋ 54		*great*
26	c	Cyprian.	13	21	20	45	☍ ☌ ☾	*Wind*
27	D	Cosm. Dom.	14	20	3	♌ 16	□ ♅ ☾	
28	e		15	20	15	34	☌ ♅ ☾	
29	f		16	19	27	37		*very temperate*
30	g	Hierome	17	19	9	♍ 33	☌ ☿ ☾	

	D d.	h m.	☿ d.	♂ m.	d.	♀ M.	d.	♃ m.	♄ M.	♅ D.
	1	3♓ 0	8 ♈	1♍ 6	♏	13♑ 18	22 ♏	26	4 ♑	10
	6	2	39	9	13	24	9	17	1 ♌	15 ☌M 23
The	11	2	18	10	8	12	0	25	1♍ 9	3♑ 4 4♑
Planets	16	2	0	11	1	14	4♐	1	♏ 9	17 38 ☽D 41
places	21	1	44	11	5♎	17	42	7	24	25 17 ☉S 25
	26	1	28	12	9	20	42	3	25	2 ♏ 38 ☽D 14

1	5	37	6	23	☿ is with ☾ at 1 morning.					1	12	36 27
2	5	40	6	20						2	1	24 28
3	5	42	6	18						♃	3	12 20
4	5	44	6	16						♄	3	☌ ●
5	5	45	6	5						5	3	4 1
6	5	47	6	3						6	4	36 2
7	5	49	6	11						7	5	24 3
8	5	50	6	10						8	6	12 4
9	5	51	6	9				(chi S a 12		9	7	0 5
10	5	53	6	7	Head of Andromeda and ☾ steps					10	7	48 6
11	5	56	6	4	Pegasus Wing S. at 12					11	8	36 7
12	5	57	6	3						12	9	24 8
13	6	0	6	0						13	10	♓ 12 9
14	6	2	5	58	Wind aid					4	11	0 10
15	6	4	5	56	Snow.					15	11	♓ 48 11
16	6	6	5	54	13 day) The Sun Rises due East,					16	12	36 12
17	6	8	5	52	and Sets due West					17	1	24 13
18	6	10	5	50						18	2	12 14
19	6	12	5	48						19	3	0 15
20	6	14	5	46	South in Whales Tail, S. at 12					20	3	48 16
21	6	16	5	44						21	4	36 17
22	6	18	5	42	7 ✶ is with ☾					22	5	24 18
23	6	20	5	40						23	6	12 19
24	6	22	5	38						24	7	0 20
25	6	24	5	36						25	7	48 21
26	6	26	5	34	And 9 wedges Gird. S. at 12					26	8	36 22
27	6	28	5	32						27	9	24 23
28	6	30	5	30						28	10	12 24
29	6	32	5	28						29	11	0 25
30	6	34	5	26	Cassiopeas Knee S. at 12					30	12	♓ 26

☾ New Moon the 3 day, 14 min. past two at night.
☽ First Quarter the 1 day, 58 min. past 8 at night.
○ Full Moon the 18 day 21 min. past 12 at noon.
☽ Last Quarter the 25 day, 16 min. past 12 at noon.

1	a	Remigius	18	♎	4	21	♏ 27	*Temperate wea-*
2	b	18 Sun. af. Tri.	19		16	31	♐ 9	*ther the 3 firſt*
3	c		20		17	15	2	*days. Thes*
4	d	Francilcus	21		17	27	5	☐ ♂ ☾
5	e		22		17	9	♑ 5	☐ ♃ ☾ ♂ ☿ ☾
6	f	Faith	23		16	21	10	*Moiſt air with Wind.*
7	g	Marcellus	24		16	3	♐ 19	☐ ♄ ☾ *and*
8	a		25		16	15	42	*Rain*
9	b	19 Sun. af. Trin.	26		16	28	14	☐ ♀ ☾
10	c	Gedeon	27		16	11	♑ 12	*Intemperate*
11	d	Burchard	28		16	24	8	♂ ♂ ☾
12	e		29		16	7	♒ 34	*Cold but dry*
13	f	Edward Conf.	30	♍	16	21	23	♂ ♃ ☾ ☐ ☿ ☾
14	g	Calixtus	1		16	5	♓ 37	♂ ♄ ☾
15	a	Wolfrane	2		16	0	15	*Cold*
16	b	20 Su. af. Trin	3		16	5	♈ 9	♂ ♀ ☾ Perig.
17	c		4		16	20	15	
18	d		5		16	5	♉ 21	☐ ♂ ☾
19	e		6		16	20	21	☐ ♃ ☾
20	f		7		17	5	♊ 9	☐ ♄ ♂ ☿ ☾
21	g	11000 Virgins	8		17	19	23	*Wind and*
22	a	Coldula	9		17	3	♋ 16	*Rain*
23	b	21 Sun. af. Tri	10		17	16	33	☐ ♀ ☾
24	c	Term Virgins	11		18	29	35	*Very temperate*
25	d	Criſpine.	12		18	2	♌ 11	♂ ♂ ☾ ♂ ♃ ☾
26	e		13		19	24	25	*Windy*
27	f		14		19	5	♍ 46	♂ ♄ *and* ☐ ☿ ☾
28	g		15		19	19	18	*Wind*
29	a		16		20	0	0	
30	b	22 Sun. af. Tri.	17		21	12	0	☾ *Aſpect.*
31	c		18		21	48	6	♂ ☽ ☾ *Cloudy*

	D	♄		♅		♂		♀		☿		☾	Lat.
	d.	m. d.		m. d.		m. d.		m. d.		m.		S.	A.
	1	♓ 15		♉ 13	24	♍ 23	45	♎ 19	36	♍ 9	36	S	48
The	6	1	5	14	3	26	54	25	46	16	47	3M	11
Planets	11	0	57	14	46	♒ 0	9	♏ 1	57	22	0	5D	11
places	16	0	51	15	21	3	28	8	25	27	53	0	34
	21	0	48	15	51	6	42	13	2	0	♐ 13	4S	45
	26	0	47	26	20	10	0	0	50		9	3D	58

1	6	36	5	24						1	1	36	27
2	6	38	5	22						2	2	24	28
3	6	40	5	20						3	3	0	●
4	6	42	5	18						4	3	48	1
5	6	44	5	16						5	4	36	2
6	6	46	5	14						6	5	24	3
7	6	48	5	13						7	6	12	4
8	6	50	5	10						8	7	0	5
9	6	52	5	8	*Rams horn. S. at* ♈					9	7	48	6
10	6	54	5	6						10	8	36	7
11	6	56	5	4						11	9	24	8
12	6	58	5	2	*Rams head S. at* ♈ 2.					12	10	12	9
13	7	0	5	0						13	11	0	10
14	7	2	4	58						14	11	48	11
15	7	4	4	56						15	12	36	12
16	7	6	4	54						16	1	24	13
17	7	8	4	52						17	1	12	14
18	7	10	4	50						18	2	0	●
19	7	12	4	48	☽ *with the* ☾, *And Sun Rises*					19	3	48	16
20	7	14	4	46	*E S E. Sets W S W.*					20	4	36	17
21	7	15	4	45						21	5	24	18
22	7	17	4	43						22	6	12	19
23	7	19	4	41						23	7	0	20
24	7	20	4	40						24	7	48	21
25	7	21	4	38	☿ *is Retrograde.*					25	8	36	22
26	7	24	4	36	♄ *is Direct in Motion.*					26	9	24	23
27	7	26	4	34	*Whales jaw, and Medusas head*					27	10	12	24
28	7	28	4	32	*S. at* ♈ 12.					28	11	0	25
29	7	30	4	30						29	11	48	26
30	7	32	4	28	*Perseus side S. at* ♈ 2.					30	12	36	27
31	7	33	4	27						31	1	24	28

● New Moon the 2 day, 9 min. past 5 at night.
☽ First Q after the 10 day 12 min. past 6 morning.
○ Full Moon the 16 day, 35 min. past 10 at night.
☾ Last Quarter the 24 day, 30 min. past 7 morning.

1	D			19	m	2	5	m 5	ind
2	S	All Soul.		20	2	17	58	☐ ♅ ☌ ☾
3	M			21		30	♐	14	☐ ♄ ☌ ☿ ☾
4	T			22		24	12	41	Rain
5	W			23		24	25	19	
6	T	23 Sund. Trin		24		25	10	♍ 9	Snow o
7	F	Florentius		25		2	21	7	Sl et
8	S			26		27	4	♒ 23	☐ ♀ ☾
9	S			27		27	17	47	☌ ☍ ☐ ☿ ☾
10	M			28		28	1	♓ 35	☍ ♄ ☾ close
11	T	Martin		29		29	15	30	Stormy and
12	W			♐		30	29	☌ ☾	Perig.
13	T	24 Sund. Trin.		1		31	14	♈ 18	Variable w e-
14	F	Frederick		2		3	29	2	(ther
15	S	Leopold		3		33	13	♉ 51	☐ ♅ ☾ ☌ ♀ ☿ ☾
16	S	Edmund		4		34	28	35	☐ ☍ ☾
17	M	Hugh		5		3	13	II	Very tempe-
18	T	Gelasius		6		36	27	26	t for many
19	W			7		37	11	♋ 19	days.
20	T	25 Sund. Trin.		8		38	24	47	
21	F	Oliver, Mar.		9		39	7	♌ 48	
22	S	Cæcilia		10		40	20	25	☍ ♅ ☐ ♀ ☿ ☾
23	S	Clement		11		41	2	♍ 42	Variable and
24	M			12		42	14	46	Moist
25	T	Katherine		13		43	26	36	
26	W	Conradus		14		44		♎ 25	☾ Apog.
27	T			15		45	20	18	Stormy,
28	F			6		4	2	♍ 15	Snow or Rain
29	S	Saturninus		17		48	14	13	☐ ♅ ☾
30	S			18		49	26	22	☍ ♀ ☾

	☽ d.	♄ m.	♃ d.	m.	♂ d.	m.	☿ d.	m.	♀ d.	m.	☾ D.	M.
	1	♈ 49	16 ♌	42	14 ♍	15	28 ♎	5	26 ♍	24	2 ♑	7
The	6	55	17	6	7	42	4 ♍	20	19	25		14
	11	3	17	21	21	11	10	36	15	28	2 ♈	13
Planets	16	14	17	29	24	41	16	52	15	34	8	45
	21	27	17	3	28	13	23	8	19	13	4 ♉	30
places	26	42	17	2	1	45	29	2	24	52	0	5

1	7	34	4	26	
2	7	36	4	24	
3	7	38	4	22	
4	7	39	4	21	☿ Oriental
5	7	40	4	20	
6	7	42	4	18	
7	7	43	4	17	Perseus Foot S. 12
8	7	45	4	16	
9	7	46	4	14	
10	7	48	4	12	
11	7	49	4	11	☉ Rises S E by E. and S is S W by W.
12	7	50	4	10	☿ is direct in motion.
13	7	52	4	8	
14	7	53	4	7	
15	7	55	4	5	
16	7	56	4	4	✱ is with ☾ in moon.
17	7	57	4	3	
18	7	58	4	2	Bulls Eye S. at 12
19	7	59	4	1	
20	8	0	4	0	
21	8	1	3	59	☿ at greatest distance from ☉
22	8	2	3	58	
23	8	3	3	57	♃ is Retrograde.
24	8	4	3	56	
25	8	5	3	55	The Goat S. at 12
26	8	6	3	54	
27	8	6	3	54	Orions foot S. at 12
28	8	7	3	53	
29	8	8	3	52	Orions shoul. S. at 12
30	8	9	3	51	

The Sun rises 5 minutes after

The Sun rises 4 minutes after

1	12		12	29	
2	23		0		●
3	33		48	1	
4	44		36	2	
5	55		24	3	
6	66		0	4	
7	7	7	12	5	
8	8	8	10	6	
9	9	9	5	7	
10	10	10	H	1	8
11	11	11		0	9
12	11	12		48	10
13	12	13		36	11
14	1	14		24	12
15	2	15		12	13
16	3	16		0	●
17	3	17		48	15
18	4	18		36	16
19	5	19		24	17
20	6	20		12	18
21	7	21		0	19
22	7	22		48	20
23	8	23		36	21
24	9	24		24	22
25	10	25		12	23
26	11	26		0	24
27	11	27		48	25
28	12	28		36	26
29	1	29		24	27
30	2	30		12	28

The Moon rises 12 minutes later

☾ New Moon the 2 day, 11 min. past 10 in morn.
☾ First Quart. the 9 day, 13 min. past 3 afternoon,
☽ Full Moon the 16 day, 10 min. past 11 before noon.
☾ Last Quarter the 24 day, 22 min. past 5 morn.

		Religios	19	♐ 50	8	♐ 54	☐ ♂. ♂ ☿ ☾	
2		Cordida	30	51	21	40	*Snow*	
3		Barbara	41	53	4	♑ 37	*Sleet, Snow,*	
4		Sunn in Adv.	52	54	17	50	*and Rain.*	
5			63	55	1	♒ 14	*Wind and Snow*	
6	D	Nicholas	74	56	14	49	♂ ♃ ☾	
7	E		85	58	28	32	♂ ♄ ☾	
8		Concep. Mary	96	59	13	♓ 9	♂ ♂ ☐ ☿ ☿ ☾	
9	F	Ciprian	108	0	26	15	*Wind.*	
10	G		119	1	10	♈ 24	*more*	
11	A	Sun in Adv.	0	♈ 3	24	31	☾ Perig.	
12	B	Paul Bish.	1	4	8	♉ 47	*Temperate*	
13	C	Lucy.	2	5	23	8	☐ ♃ ☾	
14	D		3	6	7	♊ 5	☐ ♄ ☾	
15	E	Ember week	4	8	21	30	☐ ♂ ☾ ☍ ☿ ☿ ☾	
16	F		5	9	5	♋ 36	*Warmer*	
17	G	Victor	6	10	19	17	*weather.*	
18	A	4 Sun in Adv.	7	12	2	♌ 39		
19	B		8	13	15	42	☍ ♃ ☾	
20	C		9	14	28	19	*Most air*	
21	D	S. Thomas	10	16	10	♍ 38	*inclining*	
22	E		11	17	22	43	*to Snow*	
23	F	30 Martyrs	12	18	4	♎ 36	☐ ☿ ☿ ☾ ☉	
24	G	Victoria vir.	13	19	16	15	☾ Apog.	
25	A	40 Virgins	14	21	28	10	*Rain.*	
26	B	Christ	15	22	10	♏ 3	☐ ♃ ☾	
27	C	S. Steph.	16	23	22	9	*Cold Rain.*	
28	D	S. John	17	25	4	♐ 25	*Variable,*	
29	E	Innocents	18	26	17	4	*and uncer-*	
30	F	Tho. Becket	19	27	29	58	☐ ♂ ☾ *tain*	
31	G	David	20	28	13	♑ 16	♂ ☿ ☿ ☾	
	A	Silvester						

	☽			♄		♃		♂		♀		☿		lat.	
				m.	d.	m.	d.	m.	d.	m.	d.	m.		S.	D.
					♑		♑		♐		♑				
				58	15	47	23	17	7	10	9	1	2		
1	8	10	3	35									1	3	2
2	8	11	3	45	South at 12								2	3	48
3	8	11	3	48									3	4	36
4	8	12	3	48									4	5	24
5	8	13	3	47	Wagoners Shoulder S 12								5	6	12
6	8	13	3	47	Orions right Shoulder S. 12								6	7	0
7	8	13	3	47									7	7	48
8	8	13	3	47									8	8	36
9	8	13	3	47									9	9	24
10	8	13	3	47									10	10	12
11	8	13	3	47									11	11	0
12	8	13	3	47									12	11	48
13	8	13	3	47	☽ ✶ with the ☾								13	12	36
14	8	13	3	47	Pollux-foot S. at 12 the eleventh d.								14		24
15	8	13	3	47	The ☉ rises S. E. half a Point Eastferly, and sets S. W. half a Point Westerly.								15	1	12
16	8	13	3	47									16	3	0
17	8	12	3	48									17	3	48
18	8	11	3	48									18	4	36
19	8	10	3	50									19	5	24
20	8	9	3	51									20	6	12
21	8	8	3	53									21	7	0
22	8	7	3	53									22	7	48
23	8	6	3	54									23	8	36
24	8	5	3	55									24	9	24
25	8	5	3	55									25	0	12
26	8	4	3	56									26	11	0
27	8	4	3	56									27	11	48
28	8	3	3	57	Caſtor South at 12								28	12	36
29	8	3	3	57									29	1	24
30	8	2	3	58	Little Dog South at 12								30	2	12
31	8	2	3	58	Pollux South at 12								31	3	0

The Sun rises minutes after.

The Planets Southing.

First in Orions Girdle

High water at London bridge.

♈	*The eager* Ram *rules* both the Head *and* Face,
♉	*The* Neck *and* Throat *is* sullen Taurus's *place.*
♊	*Resembling* Twins *the* Arms *and* Shoulders *guide*;
♋	*The* slow pac'd Crab, *the* Breast, *the* Spleen, *and* Side.
♌	*The* Heart *and* Back's *the* Gen'rous Lion's *share*;
♍	*The* bashful Maid *o'* Bow'ls *and* Belly *takes care.*
♎	*To the* just Ballance, Reins *and* Loyns *belong*;
♏	*The* Sec'ret gov'ern'd *by the* Scorpion.
♐	*The* lusty Thigh's *the* Archer *doth assist*;
♑	*The* Goat *our* carnal mental Knees *watch.*
♒	*The* nimble Legs *o'* Aquarius *to doth fall*;
♓	*The active* Feet *to* Pisces: *And there's all.*

The Character of the Planets and their Aspects.

♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☽ Luna
☌ Conjunction, ☍ Opposition, □ Quartile, △ Trine, ⚹ Sextile.

Whereas in this and the last I have treated of the Sphere, and the Circles thereof I thought good in this place to Advertise,

THat GLOBES of all sorts, both *Celestial* and *Terrestrial*, made according to the more accurate observations and discoveries, are Made and Sold by *R. Morden*, at the Sign of *ATLAS* in *Cornhill*, on the West side of the *Royal Exchange*, next *Change* side. A Tractate of the Uses whereof will shortly be published by the *Rev. Leybourn.*

An Explanation of the Preceding Kalendar:

EVery Moneth contains two Pages: the first Page, that towards the Left hand, contains six Rows or Columns, of which

The first, contains the Dayes of the *Moneth*.

The Second, the Dayes of the *Week*, B being the Dominical, or Sunday Letter.

The third, contains the *Feasts* and *Saints Dayes* both *fixed* and *Moveable*, the beginning and end of the *Termes*. &c.

The Fourth sheweth the *Place* of the *Sun* at noon every day in the Year, As the first of *January* the *Sun* is in 21 degree 45 minute of *Capricorn*.

The Fifth, shewes the *Place of the Moon* every day at Noon, As *January* the first she is in 20 degr. 10 min. of *Virgo*, which ruleth the *Guts Bowels and Belly*.

The sixth contains the *Aspects* of the *Planets* with the *Moon*, & also amongst themselves, with the inclination or change of the *Aire* every day.

In the other Page, at the top thereof is the *Place* of the *Planets* every 5*th*. day at Noon, as also the ☽ *Latitude*, under which are Seven Columns, of which

The first contains the day of the *Moneth*,

The Second, the time of the *Suns Rising*,

The Third, the time of the *Suns setting*. As upon the first of *January*, the *Sun* riseth 2 minutes after eight in the Morning, and sets 58 m. after 7 at night

In the Fourth Column, is set down the *increase* and *decrease*, the *Longest* and *shortest* day in the Year.

The *Southing* of several *Fixed Stars* at *Midnight*, with other things of Note.

The Fifth repeats again the day of the *Moneth*.

And the Sixth shews the time of *High-Water* at *London-Bridge* every day. As on *January* the first, it is high Water at *London-Bridge* at 7 of the Clock the Second day, at 48 minutes after 7 *&c.*

The Seventh and last Column shews the days of the *Moons age*. As *January* the first, the *Moon* is 20 dayes Old, the 2d. day 21 dayes Old *&c.*

The Use of the following Table of Interest:

The Table contains 6 Columns. The first shews the Principal, from 5*s.* to a 1000*l.* in this order, 5*s.* 10*s.* 15*s.* Then from 1*l.* to 10*l.* Then from 10*l.* to 100*l.* And then from 100*l.* to 1000*l.* Against every of which Summs stands the the *Interest* thereof, for 1 Moneth, 2 Moneths, 3 Moneths, 6 Moneths, and for a Year.

Suppose you would know the *Interest* of 6*l.* 1*d.* for the times above mentioned.

Find 6*l.* in the first Column towards your left hand and against it under 1 Moneth, is 7*d*-1*q*. under 2 Moneths is 1*s.* 2*d*-2*q*. under 3 Moneths is 1*s.* 9*d*-3*q*. and under a year is 7*s*-2*d*. Which is the *Interest* thereof for a Year —— Again the Table shews that the *Interest* of 500*l.* for 1 Moneth is 2*l.* 10*s.* for 2 Moneths 5*l.* for a Year 30*l. &c.* —— Again, What is the *Interest* of 732*l.* 5*s* for a Month?

The Interest of		*For a Moneth is*	
700	0	3	10 0 0
30	0	0	3 0 0
2	0	0	0 2 1
0	5	0	0 0 1
732	5	*In all*	3 13 3 0

A Table of Interest at Six per Cent. For

	I. Moneth				II Mon.				III. Mon.				VI. Mon.				A Year			
	l.	s	d.	q	l.	s.	d.	q	l.	s.	d.	q	l.	s.	d	q	l.	s.	d	
Shillings	5	0	0	1	0	0	0	2	0	0	0	3	0	0	1	2	0	0	3	
	10	0	0	2	0	0	1	0	0	0	1	2	0	0	3	0	0	0	6	
	15	0	0	3	0	0	1	2	0	0	2	1	0	0	4	2	0	0	9	
Pounds	1	0	0	1	1	0	0	2	2	0	0	3	3	0	0	7	2	0	1	2
	2	0	0	2	2	0	0	4	3	0	0	7	1	0	1	2	2	0	2	5
	3	0	0	3	3	0	0	7	1	0	0	10	3	0	1	9	2	0	2	7
	4	0	0	4	3	0	0	9	2	0	1	2	1	0	2	4	2	0	2	9
	5	0	0	6	0	0	1	0	0	0	1	6	0	0	3	0	0	0	6	0
	6	0	0	7	1	0	1	2	2	0	1	9	3	0	3	7	2	0	7	2
	7	0	0	5	2	0	1	4	3	0	2	1	1	0	4	2	2	0	8	5
	8	0	0	9	2	0	1	7	1	0	2	4	3	0	4	9	2	0	9	7
	9	0	0	10	3	0	1	9	2	0	2	8	2	0	5	5	0	0	10	0
Pounds	10	0	1	0	0	0	2	0	0	0	3	0	0	0	6	0	0	0	12	0
	20	0	2	0	0	0	4	0	0	0	6	0	0	0	12	0	0	1	4	0
	30	0	3	0	0	0	6	0	0	0	9	0	0	0	18	0	0	1	16	0
	40	0	4	0	0	0	8	0	0	0	12	0	0	1	4	0	0	2	8	0
	50	0	5	0	0	0	10	0	0	0	15	0	0	1	10	0	0	3	0	0
	60	0	6	0	0	0	12	0	0	0	18	0	0	1	16	0	0	3	12	0
	70	0	7	0	0	0	14	0	0	1	1	0	0	2	2	0	0	4	8	0
	80	0	8	0	0	0	16	0	0	1	4	0	0	2	8	0	0	4	16	0
	90	0	9	0	0	0	18	0	0	1	7	0	0	2	14	0	0	5	8	0
Pounds	100	0	10	0	0	1	0	0	0	1	10	0	0	3	0	0	0	6	0	0
	200	1	0	0	0	2	0	0	0	3	0	0	0	6	0	0	0	12	0	0
	300	1	10	0	0	3	0	0	0	4	10	0	0	9	0	0	0	18	0	0
	400	2	0	0	0	4	0	0	0	6	0	0	0	12	0	0	0	24	0	0
	500	2	10	0	0	5	0	0	0	7	10	0	0	15	0	0	0	30	0	0
	600	3	0	0	0	6	0	0	0	9	0	0	0	18	0	0	0	36	0	0
	700	3	10	0	0	7	0	0	0	10	10	0	0	21	0	0	0	42	0	0
	800	4	0	0	0	8	0	0	0	12	0	0	0	24	0	0	0	48	0	0
	900	4	10	0	0	9	0	0	0	13	10	0	0	27	0	0	0	54	0	0
	1000	5	0	0	0	10	0	0	0	15	0	0	0	30	0	0	0	60	0	0

The Uſe of the following Table, for the Purchaſs of Leaſes &c.

The Table conſiſts of 5 Columns, The firſt contains any number of years that are to be purchaſed, from 1 year to a 100.

The Second, tells you how many years and odd Moneths purchaſs, ſuch a Leaſe is worth Ready Money, 5ld. per Cent. being allowed for the intereſt of the Money laid out.

The Third Column ſhews, what the ſame is worth at 6ld per Cent. The Fourth, at 8ld per Centum.

Exampl. What is a Leaſe of 51 years to come, worth in ready Mony, at 5ld per Cent. and the laſt at 10. l. per Cent.

Look in the firſt Column for 51 years, and right againſt it under V per Cent. you ſhall find 18. 3, which ſhews the Leaſe is worth 8 years purchaſe, and 3 Moneths, which is a quarter of a year. So that if the Rent were 10l. a year, then 18 times 10l. is 180 l. and the quarter of the year is 2l. 10s. in all 182l. 10s. and ſo much is the Leaſe worth in ready Money at 5 per Cent.---But if the purchaſer would have 6l.8l.or 10l. profit for his Money, then

At	l.	Profit for his money the leaſe is worth	year Mon	Purchaſe Which comes to but	l. s. d.
	6		15——9		157--10--0
	8		12——3		122--10--0
	10		9——11		99—3—-

And thus you may do for any other number of Years.

So, A Leaſe of 21 years at	l.	per cent. is worth	Years	Moneth.	Purchaſe
	5		12	10	
	6		11	9	
	8		10	0	
	10		8	11	

Let the Rent be what it will

A Table for the Purchase of Leases of Land, or Houses, ready cast up at 5l. 6l. 8l. and 10l. Per Cent. Compound interest.

The Number of Years to be Purchased	At V Per Cent. Years	Mon	At VI Per Cent. Years	Mon	At 8 per Cent. Years	Mon	At X Per Cent. Years	Mon
	The Value of the Purchase in		The Value of the Purchase in		The Value of the Purchase in		The Value of the Purchase in	
1	0	11	0	11	0	11	0	11
2	1	10	1	10	1	9	1	9
3	2	9	2	8	2	7	2	6
4	3	7	3	6	3	4	3	2
5	4	4	4	3	4	0	3	9
6	5	1	4	11	4	7	4	4
7	5	9	5	7	5	2	4	11
8	6	6	6	2	5	9	5	4
9	7	1	6	10	6	8	5	9
10	7	9	7	4	6	9	6	2
11	8	4	7	11	7	2	6	6
13	9	5	8	10	7	11	7	1
15	10	5	9	9	8	7	7	7
17	11	3	10	6	9	1	7	0
19	12	1	11	2	9	7	8	4
21	12	10	11	9	10	0	8	11
23	13	6	12	4	10	4	9	1
25	14	1	12	9	10	8	9	3
27	14	8	13	3	10	11	9	4
29	15	2	13	7	11	2	9	6
31	15	7	13	11	11	4	9	9
41	17	1	15	1	11	11	9	10
51	18	3	15	9	12	3	9	11
61	18	11	15	2	12	4	10	0
71	19	4	15	5	12	5	10	0
81	19	7	15	6	12	6	10	0
91	19	9	15	7	12	6	10	0
Fee.	20	0	16	8	12	6	10	0

A Table, shewing what hour the Moon will come to be just South, at any day of her Age.

Moons Age	*Hour:*	*Min*
1	0	49
2	1	38
3	2	26
4	3	15
5	4	3
6	4	53
7	5	42
8	6	30
9	7	19
10	8	8
11	8	56
12	9	45
13	10	43
14	11	32
15	12	11
16	12	12
17	1	0
18	1	49
19	2	38
20	3	26
21	4	15
22	5	3
23	5	53
24	6	41
25	7	30
26	8	19

The Day of the Moons Age.

In the Afternoon:

In the Morning.

The Use of the Table.

IN the Last Column of the Kalendar, you have the Age of the Moon against every day of the Year. Which known, you may by this Table know at what Hour the Moon will come to the South that day, either in the Morning or Afternoon.

Examp. *I would know, at what hour the Moon will be South, upon the 19 th. day of January.*

BY the Kalendar I find that upon the 19*th.* day of *January*, the Moon is 8 dayes Old. Wherefore look in this Table for 8 dayes, and against 8 dayes you shall find that the Moon will be South at 6 of the Clock and 30 minutes after.

Again: *Upon the* 22 *of August, I would know, when the Moon will be South*:

The Moon that day is 17 dayes Old, wherefore find 17 in this Table, and against it you shall

27	9	8
28	9	56
29	10	45
30	11	34

shall find that the Moon comes to the South at 1 of the Clock in the Morning.

This knowledge of the Moons coming to the South is very useful for many purposes, for thereby the time of the *Tides* may be known in all places: of good use for *Sea-men*.

II. Knowing the time of the Moons coming to the South, you may know the time of the Night by the Shadow of the Moon upon a Sun-Dial, as if the Sun shined: Which is of good use to all men, especially in the Country.

3ly. By the time of the Moons coming to the South, and the place of the Moon in the *Zodiack* (which the Kalendar sheweth) you may know the time of the Moons Rising, and Setting; and also how long she Shineth, which is of excellent use to Travellers.

But these things, with diverse others of the like Nature, must be reserved to ensuing Years.

BOWKER, 1670.

Of the Year, *and the Parts thereof.*

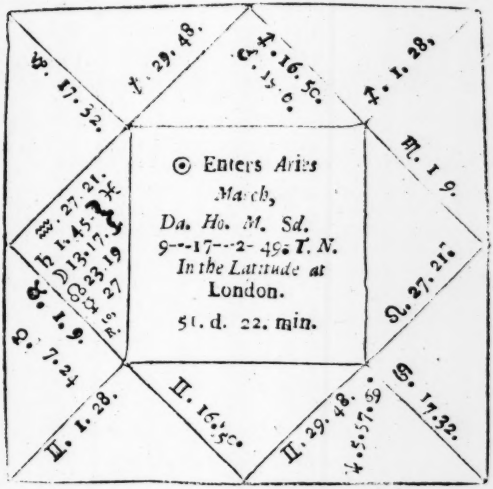
OF Years *Solar*, *there are two ſorts*, viz. *the* Syderical, *and the* Tropical. *The* Syderical *is that ſpace of time, in which the Sun departing from any known* Fixed Star, *returneth to it again. The* Tropical *Year is that ſpace of time in which the Sun departing from any of the* Cardinal points *of the* Zodiack, *returneth to the ſame again. This* Tropical Year *hath its name* ἀπὸ τῶν τροπῶν, *which ſignifies* Viciſſitudes, Turnings *and* Changes, *becauſe that in this ſpace of Time are all the mutations or Changes that can be in a* Year, *namely the changable* Seaſons *of* Winter, Spring, Somer *and* Autumn, *which are cauſed by the Suns receding from us, or approaching to us, and of theſe four* Seaſons, *we ſhall in this place more particularly ſpeak. And Firſt*

Of the *Winter* or *Hyemal* Seaſon.

This Quarter took its beginning the laſt year 1669, *upon Saturday the* 11th. *of* December, *at* 3 *minutes before* 5 *of the Clock in the Morning; at which time the Sun entered into the firſt Scruple of the Tropical Signe* Capricorn, *having then greateſt South declination from the Equinoctial*, viz. 23. *degrees* 31 mi. 30″ *or there abouts, making the ſhorteſt days, and the longeſt nights to all thoſe that inhabit on the Northern ſide, of the Equinoctial, and the contrary to thoſe on the Southern ſide thereof.*

Of the *Spring*, or *Vernal* Seaſon.

Upon Thurſday *the* 10th. *of* March, *at* 2 min. 49 *ſeconds*, *after* ☌ *in the morning*, *the Sun approaches and enters into the firſt minute of the* Equinoctial Signe Aries, *makeing the dayes and nights of equal length, namely* 12 *hours*, *all the world over*, *at which time the Heavens will be poſited as is repreſented in the following Scheme.*



Of the *Somer* or *Feſtival* Quarter.

This Seaſon beginneth this Year on Saturday *the* 11th. *of* June, *at* 49 *minutes after* 7 *in the morning*, *the Sun then having*

made

made his greatest Northern Journey, and is then entring into the Northern Tropical Signe Cancer, *making the longest day in this our Horizon of* London 16 *hours and* 26 *minutes, and the night* 7 *hours* 34 *minutes long.*

Of the *Harvest*, or *Autumnal* Quarter.

This Quarter begins on Monday *the* 12th. *of* September, *one minute before* 11 *at night, again making the Days and Nights of equal length through the whole world.*

Astrological Judgments, deduced from the *Scheme* of the Position of the Heavens at the Suns entring into *Aries*.

In the foregoing Scheme this is considerable; All the Planets *except* Mars *are under the Earth, and* 4 *of them, viz.* ♄. ☉. ☿. ☽. *and* ♌ *in the first, and* ♀ *not far from the Cusps of the second House: Again* ♃ *is in* 5 *d.* 57 m. *of* ♋ *under the Earth in the* 5th. *House, almost in* ☍ *to* ♂. *in the* 10th. *House,* ♃ *is Lord of the Revolution, & sharing with him in his Exaltation, for* ♃ *hath* 15, *and* ♂ 11 *clear testimonies of fortitude, and no debilities at all: None of the other* Planets *will have any considerable share in this Revolution, for* ♄ *hath but* 4, *and the* ☉'s *Exaltations,* ♀ ☿ *and* ☽ *having none at all.*

Jupiter *Lord of the Year, portends temperate Aire, moderate and wholsome winds, whereby all sorts of sensible and Vegetive Creatures are comforted, as Men, Cattel, Seeds and Plants: If he be well posited in the signe, it intimates that the Nobility and Clergy shall be in a happy and successfull condition, and shall be had in esteem among the people; but by his Position in this figure under the Earth, and* ♃ *also in almost an* ☍ *to* ♂ *(who is almost equal in power with him, and better seated in the Figure, viz. in the* 10th. *House near* Medium Cœli*) portends some differences and clashings, or discontents between the Clergy and the Souldiery. And* Haly *a learned Astrologian saith: That when* ♂ *shall be Partner with* ♃ *in power, in any Revolution it shall portend*

great

great loss and detriment to men in great Dignity and Office.—When ♂ shall be Lord of the Year (as in this Figure he is) a great shaver with ♃ it portends a hot Sommer, and a moderate Winter; the ateens house-burning, much Lightning, Thunder and Hail, and Rain will abound. If he be well placed in the Figure, it declares the Souldier shall be very successful in his Atchievements and undertakings, and be had in good esteem.——Three other Figures might be erected for the three other ingresses of the ☉ into ♋, ♎ and ♑, but the ascendent in this Figure being a fixed Signe, is sufficient for the whole Revolution; wherefore Saturn in the first House almost in square to both the chief Rulers ♃ and ♂, denotes a happy and successful condition of the people; ♃ in the 5th. Feasting, Revelling, and Sporting. The ☉ ill seated in the first House, denotes no great good to great men, who are like to suffer in their Reputations, by losing of their Places, or suffering in their Reputations. ☿ in the 2d. House should presage Profit or Gain by Women; happiness to the People, and fertility of the Fruits of the Earth; but being void of all essential dignities, they will be much impaired. ♀ the ☽ and ☌ are all in the first House; all which denotes good success, health, happiness, prosperity, gain and plenty of the fruits of the Earth, but there will be some mitigation of their natural benevolence, by reason of their weakness, not one of them having any dignity essential; ♃ also being in ♋, and Lord of the Year, though not so well seated, distributes his benevolence on the same places which are governed by ♋, that is to say Scotland, Holland, Zeland; the North part of England, Venice, Amsterdam, Tunis, Milan, &c. But ♂ being almost equal in power with ♈, and better Posited in the Revolution, being in the 10th House in ♎, portends no good to those Countries under that Signe, as Arabia Felix, Hispania, Slavonia, Hungaria, &c. for those people and such other under that Signe, may expect Wars, great Drought destroying the Fruits of the Earth. And thus much concerning the Revolution in General.

Of

Of the Eclipses this Year.

The Luminaries this year will be four times Eclipsed, viz. the Sun twice, and as often the Moon; of which only the last of the ☽ will be visible to us.

The first which is a partile Eclipse of the Moon, will be upon the 26th. of *March*, about 11 of the Clock in the Morning not to be seen of us, but visible to our Antipodes, if any there be.

The second is a Partile one of the Sun, upon the 9th. of *April*, at the time of his setting, and so cannot be seen of us, but to the Inhabitants of the North-West parts of the World it will be visible, as to *Estoteland*, *Nova Francia*, &c.

The fourth and last Eclipse is of the Sun upon the third day of *October*, not to be seen of us, but will be perspicuous to the Inhabitants of the Southern parts of the Earth, as in *Magellanica*, &c.

But the third Eclipse, which is but a partile one of the Moon, will be visible to us, it happening upon Munday morning the 19th of *September*.

The beginning at——18 *min.* past 1.
The middle at——44 *min.* past 2. } *in the Morning.*
The end at———11 *min.* past 4.

And the Digits Eclipsed will be 9 and a half.

This Eclipse happening in the first decade of the Signe ♈, denotes that Vines, Fig-trees and such like Fruits shall be corrupted. More might be said concerning the effects of this Eclipse, but at present let this suffice.

The

The last Year I gave you an account of the Circles *of the* Sphere, *both* great *and* small, *the several uses to which each of them was appropriate; and how they limited* Times *and* Seasons, *and diversity of* Shadows, *to the several Inhabitants of this earthly* Ball: *and that those* Rudiments *may be the better remembered, I have here delivered them in* plain Rhymes.

Six *great Circles* marke you shall,
Which equally divide this Ball,
Just in the mid'st: Between the *Poles*,
Æquator. From *East* to *West* th' *Æquator* Rowls.
Ecliptick. Th' *Ecliptick* cuts him, and doth slide
Scarce twenty four degrees aside.
Horizon. *Horizon* even with the ground,
From Stars below, our sight doth bound.
Meridian. *Meridian*, that upright doth flie,
Parting the *East* and *Western* skie.
2 *Colures.* The *Colures* through the *Poles* do run,
Quartering the Circle of the *Sun*:
One where the *Spring* and *Fall* begin,
Th' other where *longest days* come in.
Four *Lesser Circles*, marke them well,
Are to th' *Æquator* Parallel:
2. *Tropicks* The *Tropicks* bound the Suns high way,
Shewing the *long'st* and *shortest* day.
2 *Polartick Circles.* The *Artick Circle* cuts the Bears,
Th' *Antartick*, opposite appears.
12. *Meridians.* *Meridians* they'r *halfe twenty four*,
150 *Degrees.* For *Hours*, and for *grades* nine score:
Through both the *Poles* of th' world do pass
150 *Parallels of declination.* And th' *Equinoctial* down right Cross,
And nine score *Parallels* hath that line,
By which *Stars North* and *South* decline.

The

Th' *Ecliptick* hath his *Longitudes*, — *Longitude and*
And *Parallels* of *Latitudes* — *Latitude of*
For *Stars*; but in *Geography*, — *Stars.*
The *Towne* beside th' *Equator* lie. — *Places.*
Over our head, and under feet, — 180 *Azimuths*,
The nine score *Azimuths* do meet. — 180 *Parallels*
And here as many *Parallels* — *of Altitude.*
Of *Altitude* th' *Horizon* tells.
Longitudes, and *Meridians* all,
And *Azimuths great Circles* call: — *Great Circles.*
But all their *Parallels* in Heaven,
Being *Lesser*, cut the *Globe* uneven. — *Lesser Circles.*
Degrees three hundred and three score, — *Degrees.*
Have every *Circle*: and no more.

And now I shall proceed to render to you such *Terms* in *Astronomy*, *Cosmography*, and *Geography*, which I promised the last Year: And I shall begin with the Definition of

Such Circles which are not described, but are imagined to be upon the material Globe or Sphere.

1. *Azimuths* are all great Circles, Dissecting the Sphere, and meeting together in the *Zenith*, and are imagined to pass through every Degree in the *Horizon*, and to cut the same at right angles; they serve to find the true *Coast* and bearing of the *Sun* or *Stars* at any time from the *East*, *West*, *North*, or *South* points; some call these *Azimuths*, *Vertical Circles*, because they pass through the *Zenith*, which is also called the *Vertical Point*, but that *Azimuth* which passeth through the *East* and *West* points of the *Horizon*, is most properly called the *Prime Vertical Circle*.

2. *Amplitude*: That distance or space upon the *Horizontal* Circle, which is contained between the *East* or *West* points thereof, and that place where the *Sun*, *Moon*, or any *Star Riseth* or *sets*, is called the *Amplitude* of the *Sun* or *Stars rising* or *setting* from the true *East* or *West* points.

3. *Almicanterabs*: Are lesser Circle of the Sphere, drawn

drawn (or supposed to be drawn) parallel to the *Horizon*, and so continued up even to the *Zenith*: and their use is to measure the *Altitude* of the *Sun*, *Moon*, *Stars*, or other *Planets* or *Comets* above the *Horizon*, which is no other then the number of Degrees of that *Azimuth Circle*, which passeth through the *Sun* or *Star*, and the *Horizon*.

4. *Parallels of Declination*, are lesser Circles drawn (or imagined so to be) parallel to the *Equinoctial*, as the *Almicanters* were to the *Horizon*, and these passe up to the *Poles* as the other did to the *Zenith*. These *Parallels* when they have relation to the *Sun* or *Stars* are called *Parallels of Declination*, but upon the *Terrestrial Globe*, having respect to several *Countrys* or *Places*, are called *Parallels of Latitude*. For the *Latitude* of a *Place* is measured by the arch of the *Meridian* which lies between the *Zenith* of that place, and the *Equinoctial*: Or, It is the Arch of the *Meridian*, which passeth through the place, and is comprehended between that and the *Horizon*. And in like manner, *The Declination of the Sun*, or any *Star*, is its distance upon the *Meridian* intercepted between the *Sun* or *Star*, and the *Equinoctial*.

5. *Parallels of Latitude in the Heavens*, are lesser Circles described (or supposed so to be) upon the Poles of the *Ecliptick*, and drawn parallel thereto, and they serve to define the *Latitude* of a *Star*, which is the Arch of a supposed great Circle, drawn through the *Poles* of the *Ecliptick* line, and making right Angles therewith, and comprehended between the said *Ecliptick* and the body of the *Star*, and counted either towards the *North* or *South Poles* of the *Ecliptick*. This for the *Moon*, *Stars*, and *Planets*; but for the *Sun*, that always moving under the *Ecliptick* Line, hath no *Latitude* at all.

6. *Longitude in the Heavens*, is measured by the Arch

Arch of the *Ecliptick*, comprehended between the firſt point of *Aries* and a ſuppoſed great Circle, or *Meridian* of *Longitude*, paſſing through the Centre of the *Sun* or *Star*, and the two *Poles* of the *Ecliptick*, and is accounted from the beginning of *Aries* according to the ſucceſſion of the *Signes*.

7. *Longitude on the Earth*, is meaſured by an Arch of the Equinoctial, contained between the primary or firſt *Meridian* of any place where *Longitude* is aſſigned to begin, and the *Meridian* of any other place, and is accounted *Eaſtward* from the ſaid firſt place, in the ſame manner as the *Right aſcention* is accounted in the Heavens.

8. *Right Aſcenſion* is an Arch of the *Æquinoctial* (counted from the beginning of *Aries*) which cometh to the *Meridian* with the *Sun*, *Moon*, or any other *Star*, or any portion of the *Ecliptick*. This *Right Aſcenſion* is of ſuch uſe, that there are *Tables* thereof ready Calculated, both for the *Sun* and *Stars*, whereby is known the true time of their coming to the *Meridian*, their *Riſing* and *Setting*, and the true *time* or *hour* of the *Night*.

9. *Oblique Aſcenſion* is an arch of the *Æquinoctial*, comprehended between the beginning of *Aries*, and that part of the *Æquinoctial*, which riſeth with the centre of a *Star*, or any other point of the *Ecliptick*, in an *Oblique Sphere*.

10. *Aſcenſional Difference*, is the Arke of difference between the *Right* and *Oblique Aſcenſion*, and thereby is meaſured the time of the *Suns* or *Stars* riſing before or after *ſix* a Clock.

FINIS.